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AN EVALUATION OF THE EFFECTS OF A SUMMER HEAD START PROGRAM.

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THIS PROJECT WAS CONDUCTED TO INVESTIGATE THE EFFECT UPON DISADVANTAGED CHILDREN OF A HEAD START PROGRAM AND THE AFTER-EFFECT OF THAT PROGRAM ON THE SUBJECTS' SUBSEQUENT PERFORMANCE IN KINDERGARTEN AND FIRST GRADE. MEASURES OF APTITUDE AND ACHIEVEMENT WERE TAKEN DURING THE FIRST TWO WEEKS AND LAST TWO WEEKS OF THE EIGHT WEEK HEAD START PROGRAM, DURING THE THIRD MONTH OF THE SUBJECTS' FIRST YEAR OF FORMAL SCHOOL, AT THE COMPLETION OF THAT FIRST YEAR, AND DURING THE FIRST SIX MONTHS OF THEIR SECOND YEAR OF SCHOOL. RESULTS OF TESTING DURING THE HEAD START PROGRAM SHOWED SUBSTANTIAL GAIN IN ALL PERFORMANCE AREAS BETWEEN THE TWO TESTING PERIODS. NO CONTROL GROUP WAS USED. THEREFORE, NO EXPERIMENTALLY BASED CONCLUSION COULD BE MADE AS TO WHETHER THE GAIN WAS DUE TO THE HEAD START EXPERIENCE OR TO A SIMPLE PASSAGE OF TIME AND RESULTING GENERAL DEVELOPMENT. MEASURES OF PERFORMANCE AFTER THE SUBJECTS ENTERED SCHOOL SHOWED NO SIGNIFICANT GAINS BY HEAD START PUPILS OVER NON-HEAD START PUPILS. THE ONLY REAL DISTINCTION WAS IN SCHOOL ATTENDANCE, IN WHICH HEAD START PUPILS DID BETTER. THE FACT THAT THE EXPERIMENTAL SUBJECTS SHOWED HIGH GAINS DURING THE HEAD START PROGRAM BUT FAILED TO EVIDENCE SUCH GAINS IN THE FORMAL SCHOOL SITUATION WAS EXPLAINED IN PART AS DUE TO THE FACT THAT THE CHILDREN WERE EMOTIONALLY UNREADY AT THE BEGINNING OF THE HEAD START PROGRAM TO BE TESTED BY RELATIVE STRANGERS IN UNFAMILIAR SURROUNDINGS. IT IS HYPOTHESIZED, THEREFORE, THAT THE CHILDREN SCORED UNCHARACTERISTICALLY LOW. (WD)

An Evaluation of the Effects
Of a Summer Head Start Program

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INTRODUCTION

The problems encountered by families in poverty circumstances are perhaps worse today than they were yesterday. Inflamed feelings which will tolerate little delay in achieving equity and justice in our society have had an undeniable effect of producing class and racial distrust and disorder, and prospects for permanent erradication of this poverty condition are tenuous.

It is an established fact that ignorance, failure and alienation from society are transmitted from generation to generation. We are aware that at least 20% of the population of this country is suffering from substandard economic and educational conditions. Despair, apathy, hatred, lack of achievement, and a defensive pride in ignorance are handed down from parent to child in a cycle that might perpetuate itself indefinitely.

Our public schools today stand in the position of attempting to transmit a rapidly growing and vastly complex culture from one generation to the next. Successful transmission of information, skills, values, attitudes, and standards of behavior is essentially a process of communication. In educating the child from a culture of poverty, the process of relationship across generations (child-adult) is complicated by an abyss of language and experiential differences.

In a painfully significant percentage of cases, the public school system has not been able to carry out its role of preparing the child to be a productive and self-fulfilled citizen.

The cycle of cultural and economic deprivation persists even though the children are exposed to formal schooling for many years. It is evident that a child coming from such a background usually does not have many of the basic language and social skills that his more fortunate peers possess. It has been generally observed that many underprivileged children, when compared with middle class children, have not had the type of stimulation of words and early sharing of ideas which seem so necessary to prepare them for the challenges of learning. By the middle of the primary grades, many of these children seem to have developed mental sets in which the school is regarded as a place for compulsory failure, pain, and frustration.

With the advent in 1965 of a new federal agency, the Office of Economic Opportunity, came promise of a sweeping change in the American educational structure. In an attempt to meet the special needs of children of poverty, a nationwide push for pre-school enrollment was designed to find and remediate the problem. Quickly placed before the American public, the idea of such an approach, one of many in the declared "War on Poverty", attracted enthusiastic support from most and great hope from many.

But would the translation of idea into program provide
the impetus to changing actual life styles and school adjustment
patterns of the children for whom the program was developed?
And would such changes produced by a Head Start experience be
maintained over that period of time when divergence in
performance and attitudes normally appear along class lines

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and separate the successful from the unsuccessful school child?
We felt that it was an important enough task to join researchers
all over the country to help identify the effects of a Head Start
experience upon disadvantaged children.

The purpose of this research, then, was to evaluate the effectiveness of a specific summer Head Start experience, and to measure the impact of this experience on the child's kindergarten and first grade adjustment.

METHOD

Sample. Sixty-one children were enrolled into the Staten Island Mental Health Society summer Head Start program beginning July 5, 1965. Children were selected upon identification of specific problem families and problem areas by the guidance staff of the school serving a high density poverty area on Staten Island. These families were known to the guidance staff through older siblings in attendance at the school. Enrollment into the program was made on the basis of low family income, residence in poor housing facilities, and information about family disruption. All screening data were gathered by trained representatives of SIMHS in door-to-door interviews. From a pool of over 100 eligible children, those in greatest jeopardy of later school adjustment failure were enrolled.

Of the 61 children, 33 were boys and 28 girls; 36 were Negro, 25 were Caucasian or Puerto Rican. The average age of the children was 4 years 11 months, ranging from 4-1 to 6-2. The average number of children in each family was 3.7, ranging from 1 to 10.

Design of the Study.

Phase I. The first phase of the study ran from July 5, 1965 through August 31, 1965, the period of the summer Head Start program. Initial data on the children were collected during the first two weeks of the program. Final data were collected during the last two weeks of the program. Performance measures were obtained by testing each child 2 or 3 times both at the beginning and at the end of the program. This testing was done by one of two trained psychologists. Teacher and independent observer ratings of the children were also made during these two-week periods. The specific measuring instruments are described below:

I. Child Performance Measures

- A. Cognitive (intellectual functioning)skills in verbal and nonverbal areas
 - Ammons Full Scale Picture Vocabulary Test, measuring word recognition and yielding a mental age score.
 - The Goodenough scoring of the Draw-a-Person Test, measuring nonverbal intellectual level and also yielding a mental age score.
- B. Perceptual-Motor Functioning Skills
 - Bender-Gestalt Test of Visual-Motor Performance, measuring eye-hand coordination and level of perceptual skill which was scored to yield a perceptual age score (cf. Appendix B.1).

Depending on factors of fatigue, fearfulness, and/or resistiveness.

- C. School-specific readiness skills
 - Metropolitan Readiness Test, yielding scores reflecting the number of correct responses in rudimentary reading and number skills. Five areas were assessed. Word Meaning required the child to associate an orally presented word with the correct visual representation of that word. Sentences required the child to associate an orally presented sentence with the correct visual representation. Information required the child to associate an orally presented description of a function with a picture of an object most appropriate to that function. Matching required the child to recognize which of several pictures is equivalent to a standard. Number Skills required the child to demonstrate achievement in number vocabulary, counting, ordinal numbers, recognition of written numbers, interpreting number symbols, meaning of fractional parts, telling time, and use of numbers in simple problems.
 - The O.E.O.-developed Preschool Inventory (based on research by Bettye Caldwell) yielded scores that were broken down by SIMHS staff to provide information on preschool readiness in eight areas: personal orientation, body image, number concepts, general information, visual discrimination and

association, relationships, following directions, and comprehension of social roles. The breakdown was done by a rational analysis of all items in the scale by senior Head Start teachers and mental health clinical staff. (Cf. Appendix B.2 for a copy of the Preschool Inventory and scoring manual).

II. Ratings of Child Adjustment

- A. Operation Head Start Behavior Inventory. A 50-item rating scale describing the child's behavior was completed for each child by his Head Start teacher (cf. Appendix B.3). The data were analyzed item-by-item to investigate behavior change; a factor analysis of the scale was also performed.
- B. Classroom Observation Rating Scales. Three medical students and a school psychology practicum student were hired for the summer and trained in the use of a 10-item rating scale (Appendix B.4). Each was assigned to one of the four classes and on alternate days rated half of the children in the class on each scale, giving each child a rating on each scale which represented the child's average behavior during a 1-hour observation period. The raters were trained during the first few days of the program by a senior clinical psychologist; the criterion reached was that all ratings were within one scale scale of each other after simultaneous observation and independent ratings. Scores and were the means of the first five

ratings on each item during the first two-week period and, similarly, the mean of the last five ratings during the last two-week period.

III. Maternal Attitudes

A. Attitudes Toward Education. Based on previous research (Crandall, et al. 1964; Kerlinger & Kaya, 1959; Mobilization for Youth, 1962), 64 items judged relevant for the measurement of educational attitudes of parents of preschool children were written or adapted. Home interviews with the mothers of \$5 of the children were conducted by one of two trained research assistants.

Phase II. The second phase of the investigation was a study of the child's adjustment as reported by his teacher during the third month of formal public school. Of the 61 children enrolled in the summer Head Start program, 22 entered kindergarten and 5 entered the first grade; the remaining 34 children were either too young for school enrollment or moved out of the area of study. One hundred and twenty-seven, or all, of the children enrolled in the same classes as the Head Start graduates served as control subjects.

I. Child Performance Measures

(none obtained during this phase)

II. Ratings of Child Adjustment

A. Assessment of Language Skills of 3-6 year old Children. An instrument developed by the

Bureau of Educational Research of New York
City Board of Education was given routinely
as an Inventory of Oral Communication for
Children in the More Effective Schools
Program (the school which the children were
attending was a MES). The child's expressive
ability was rated in four areas: Language
Structure, Speech Production, Naming, and
Linguistic Skills; receptive language/ability
was measured in two areas: auditory discrimination and listening comprehension (Appendix B.5).

Phase III. In the third phase of the study final report card data were gathered after the children had completed one year of formal schooling. Because only 5 of the 27 children in the study were in the first grade, only the grades from the 22 Head Start graduates who completed kindergarten were analyzed. A control group was selected to match the Head Start sample on male/female ratio, and socioeconomic status (as judged by teachers and a guidance counselor).

I. Child Performance Measures

(Inferred from report card grades; see below)

II. Ratings of Child Adjustment

A. Final Report Card Grades, June 1966. Report card grades, on a 4-point scale (excellent, good,

fair, unsatisfactory), were available for the following areas: Social Behavior, Work and Study Habits, Oral Expression, and Health Education. In addition, frequency of absences were analyzed.

Phase IV. In the final phase of the study performances measures and ratings were taken during the first six months of the child's second year of school (first grade). This phase ended in January 1967. The subjects included in this phase of the study were those included in Phase III.

I. Child Performance Measures

A. New York State Readiness Examination.

Scores on this standard reading achievement scale, administered routinely to all first grade students by their classroom teachers, were available in terms of first grade percentile placement.

B. Gates-McKillop Primary Reading Test, also administered routinely, made available a grade placement score for vocabulary.

II. Ratings of Child Adjustment

A. Mid-Year Report Card Grades, January 1967.

Report Card grades were available for the following areas: Arithmetic, Social Studies, Handwriting Skills, Social Behavior, Work and Study Habits, and Oral Expression. Frequency of absences was also analyzed.

RESULTS

Phase I

Initial and Final Child Performance Measures. measures of the children's performance were gathered during the first two weeks of the eight-week program; final performance measures were gathered during the final two weeks of the summer program. With this design, some gains in performance were expected due to the fact that the children were growing and experiencing during the six-week interim. As summarized in Table A.1 (Appendix A), the children showed significant improvement on all 16 of the performance In terms of specific functions, the average gain in mental age was almost 13 months on the Ammons and 6 months This suggests significant gains in on the Goodenough DAP. language intelligence, both verbal and nonverbal. On the Bender-Gestalt reproductions there was an increase in perceptual age of about two months, reflecting visual-motor gains consistent with what might be expected during a two-month program; therefore, while the growth is statistically significant, it cannot be meaningfully related to program instruction. Significant gains were recorded on the four reading subtests of the Metropolitan Readiness Test, suggesting better readiness skills for the group. similar significant improvement in performance was obtained on the Numbers subtest of the Metropolitan, again suggesting a level of readiness for Head Start children which was higher in August than in July.

Because no scoring system was available for the Preschool Inventory in July 1965, the Head Start staff developed a rational set of scales from the 140 items; this scoring key is presented along with a copy of the Preschool Inventory in Appendix B.2. As may be seen in Table A.1, significant improvement was observed in each of the eight cognitive areas tested: personal orientation, body image, number concepts, general information, visual discrimination, relationships, following directions, and comprehension of social roles. These results are consistent with the findings reported above for the Metropolitan Readiness Test and suggest that, on the basis of tested readiness skills, the children were better prepared for school at the conclusion of the Head Start program by virtue of their greater command and utilization of a wide range of concepts.

Initial and Final Ratings of Child Adjustment. The interest here was in assessing the child's adaptation, in terms of behavioral responses in a group situation similar to, but not identical with, that which would be experienced in the Fall in the public school ætting. The task was approached from two directions. First, teachers rated each child in their class on the 50-item Operation Head Start Behavior Inventory, a scale containing items reflecting both positive and negative adjustment; e.g., "1. Is usually carefree; rarely becomes frightened or apprehensive" and

"3. Is easily distracted by things going on around him."

In the second approach, trained observers sat in each classroom daily for one hour during the first two weeks and during the last two weeks of the eight-week program and rated each child on ten scales considered to describe essential elements of school adjustment (i.e., the Classroom Observation Ratings Scales, Appendix B.4) Because these two instruments were newly developed, it seemed important to study their structure and meaningfulness. To carry this out, factor analytic techniques were applied.

The 50 items of the Operation Head Start Behavior Inventory were subjected to a centroid factor analysis and rotated to varimax criterion; as may be seen in Table A.2, the first four factors accounted for 83% of the variance accounted for by the significant factors. The remaining five significant factors accounted for little of the remaining variance and were not considered further. As may be seen in Table A.3, Factor I was characterized by items which reflected ability to explore, welcome novelty, show imaginativeness and creativity, and to trust one's own ability (at one end) and timidity, lack of assurance, constriction, and inhibition (at the other). Factor II represented tendencies toward being sympathetic, considerate, even tempered, and compliant toward adults (at one pole) and disrespectful for the rights of others, aggressive in response to frustration, quarrelsome, and emotionally

overresponsive to usual class problems (at the other extreme). Factor III represented an eagerness to talk to and socialize with adults, and curiosity as reflected in asking many questions for information (at one end) and reluctance to talk to adults, speaking only when urged, and generally keeping aloof from adults (at the other). The fourth Factor was characterized by ability to sustain activity without need for adult attention or approval, generally carefree behavior, lack of apprehensiveness, and desirability as a playmate (at one pole), and by tendencies for getting unduly upset by mistakes or own poor performance, easy distractibility, and irritability over interruptions (at the other pole). For convenience, Factor I will be described as Novelty-Seeking/Constriction, Factor II as Cooperative/Quarrelsome, Factor III as Sociable/Withdrawn, and Factor IV as Stability/Irritability.

The Classroom Observation Rating Scales were subjected to a principal axis factor analysis and rotation to varimax criterion. The loadings of the ten rotated scales on the two significant factors are reported in Table A.4. Factor I included the following scales:

Cooperation with Adults, Aggressive Reactions, Ability to Postpone Gratification, Restraint of Motor Activity, and Type of (fine vs. gross muscle) Muscle Activity. For convenience, this Factor is named General Adaptive. The second Factor included, for our purposes, only the following

three scales: Activity vs. Passivity of Speech, Verbal Skills, and Quality of Speech. The two remaining scales which loaded on this Factor, Peer Relationships, and Independence, were not included because of relatively high loadings on Factor I (.43 and .35, respectively). This second Factor was named Language Skills. Factor scores were arrived at by summing the five scales (equal weighting) for Factor I and the three (equal weighting) for Factor II (cf. Schweiker, 1966).

Differences between the initial and final summer Head Start teacher ratings on the Behavior Inventory are summarized in Table A.1 for the four Factors described The 45 children included in this phase of the study showed significant improvement along the dimension of Factor I (Novelty-Seeking/Constriction), Factor II (Cooperative/Quarrelsome), and Factor IV (Irritability/ Stability). In comparing initial and final Head Start ratings on the 18 items with primary loadings on Factor I, the children were rated as significantly improved on 10 of the items; the remaining items showed no significant change. Of the 12 items with primary loadings of Factor II, 8 of them clearly showed significant improvement when they were considered individually; the remaining 4 showed no significant improvement. There was no significant improvement on any of the 5 items with primary loadings on Factor III. Of the 4 items with primary loading of Factor IV, 1 significant improvement was obtained on one.

Initial and final scores on the two Factors of the Classroom Observation Rating Scale administered during the summer by independent observers indicated significant gains for the Head Start children. That is, there was improvement in General Adaptation (Factor I) and in Language Skills (Factor II). When the eight scales were examined individually, seven reflected statistically significant improvement. Greatest gains were reflected in the Language Skills factor, where marked improvement was demonstrated in Verbal Skills, Activity vs. Passivity of Speech, and Quality of Speech.

Maternal Attitudes Toward Education and Their
Relationship to Head Start Performance. Eleven of the 64
educational attitude items in the pilot instrument were
open-ended. Three judges working independently scored
these items into predefined response categories. However,
because of unsatisfactorily low inter-rater reliabilities,
responses to these items were not analyzed. Of the
remaining 53 items, the 20 with the most nearly even
response distributions were selected for a principal axis
factor analysis. These items, and the distribution of
mothers' responses to them, are reported in Table A.5. The
factor analysis yielded four statistically significant
factors, accounting for 78% of the total variance. The
communalities and loadings after varimax rotation are
reported in Table A.6. Analysis of the attitude items

loading .40 and above on the four rotated factors did not readily disclose any basis for naming the factors. The value of the factor analysis, then, was in the statistical reduction of the number of variables to be analyzed.

With regard to the relationship between maternal attitudes and the children's Head Start performance, Table A.7 indicated a possible relationship between final achievement performance and the first attitude factor. It was anticipated that the best Head Start performance levels would occur where the mother was supportive of the school and held good school performance in high esteem, and where her attitudes were similar to those of middle class parents (and teachers). However, the direction of the correlations indicated that children who did well at the end of the program had parents who were somewhat critical of the school system, in that they felt they held higher standards than did the schools; i.e., the schools were neglecting the 3 Rs, that they don't pay enough attention to smart and to slow children, etc. Since the overall number of statistically significant correlations was low and might be attributable to chance differences, these correlations are merely suggestive of hypotheses for future testing.

An analysis of the frequency distributions of the 53 individual items revealed that the mothers, as a group, responded in a generally positive, socially desirable

direction similar to those responses expected of middle class parents. As a group, the Head Start mothers reported having gotten along well with their teachers when they went to school. They reported having gotten as much education as they would have liked, and indicated that education is more important today than when they attended school. They felt that education is important for getting ahead, and that the things one learns in school will be useful in later life. They felt that schools could pay more attention to low-socioeconomic status children, and indicated that sex, race, religion, and socioeconomic status are of little importance in determining the child's chances for success.

The mothers felt that teachers should start taking the child's ability into consideration at an early age, that children vary in their performance, and while teachers should be given proper guidance, they should be free to teach what they wish. The mothers agreed with items indicating that learning is the accumulation of knowledge, and that while learning to solve problems is important, so are the learning of proper attitudes, socialization, morality, and emotional-social development.

The group felt that the schools are crowded, are doing a good job, and also are paying sufficient attention to both slow and bright children. They believed that teachers are interested in their children, and that they

are doing as good a job in their neighborhood as in others. They perceived children as being somewhat lazy and unmotivated, feeling that children need supervision and discipline rather than freedom. Conversely, they felt that teachers should be more strict and have more authority.

Also, the Head Start mothers were interested in having their children do well. They wanted good grades and college educations for their children. They felt that children should attend school regularly, that homework is good for them, that they should help their children with homework. They believed that their children have a good chance of succeeding in school and also that their children had been as well prepared for school as the next child. Phase II

Assessment of Language Skills. Background characteristics of the Head Start sample (N=27) were compared with those of the non Head Start experience, control group (N=127). The demographic features which were compared with age, sex, and race of child, school year, number of children in the family, the birth order of the child, and the predominant language used by the parents in the home. The results of these analyses are summarized in Table A.8. These results indicated that the two groups had essentially the same characteristics, except for age and school grade. Because a significantly larger proportion of the Head Start children who were entering the public school were going into kindergarten, the mean age and grade level were lower.

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Since the Assessment of Language Skills scale is associated with chronological maturity, it was expected that the Head Start children, being younger, would have poorer scores on teacher ratings in this area.

The comparisons between the teacher ratings of the Head Start and the non Head Start children are summarized in Table A.9. Of the 35 items on the Scale, 11 of them reflected significantly higher teacher ratings of language ability for the children with Head Start experience.

Significant differences between the two groups were obtained in the areas of Speech Production (speaks audibly, pronounces familiar words correctly, enunciates correctly), Naming (uses names of very familiar objects, of familiar teachers, uses personal pronouns when referring to himself), Auditory Discrimination (correctly identifies sound effects without looking, repeats a single rhythmic pattern), Language Structure (does not use baby talk or make up words, uses complete sentences), and Listening Comprehension (follows directions).

Phase III

Ratings of Child Adjustment and Performance. In order to control for the disparity in age and grade level noted above, follow-up data at the conclusion of one year of schooling were obtained only on children who had entered kindergarten in September 1965. Although 22 of the 27 Head Start graduates had entered kindergarten, by June 1966 only 16 (72%) were completing kindergarten at the cooperating

public school. (Thus, of the original 61 summer Head Start children, 27 (44%) entered the cooperating school; of the 22 (36%) who had entered kindergarten, only 16 (26%) of the original sample were in attendance at the end of the year.)

The guidance counselor and teachers were asked to judge the socioeconomic status, lower or middle, of the families of all the children in kindergarten. Criteria for low SES membership were: family on welfare/unemployed, manual labor/unskilled job/domestic, below 6th grade education for parents, severe physical crowding in the home, residence in a poverty district, and limited educational experiences for the children at home. Criteria for middle SES membership were: steady employment, white collar/ skilled or semi-skilled employment, at least high school education for parents, adequate room in the home, residence in other than a poverty district, and adequate educational experiences for children at home. These criteria result in 6 of the 16 Head Start graduates being rated as of lower-class background, 10 of middle class background. (It should be noted that middle class, as defined here, would most likely be defined by observers as low-middle, or, possibly, high-lower class.) The Head Start graduates were compared with those kindergarten classmates who were most similar to them in age, sex, race, language at home, and size of This resulted in a control group of 30 children, family. 9 of whom were judged to be from lower-class environments,

21 from middle-class environments. As indicated in Table A.10, there were no significant differences among the groups in terms of sex, race, age, or number of children in the family.

Two-by-two analyses of variance (Table A.11) were used to test for differences in four kindergarten final report card grades and in total absences for the year. The results indicated that Head Start graduates were rated lower in Social Behavior than were non Head Start graduates. Children judged to be from lower-class backgrounds, irrespective of preschool experience, were rated to be poorer in Oral Expression than were children of middle-class background. The data also revealed a significant interaction for absences. Within the lower-class sample only, children with Head Start experience attended school more frequently than did children without Head Start experience; there was no such difference for children judged to be of middle-class background. There were no significant differences among the groups in either Work and Study Habits, or Health Education.

Phase IV

Child Performance Measures. In this final phase the period September 1966 through January 1967 was covered, reflecting adjustment 1 1/2 years after the Head Start experience. The same sample was used as in Phase III above.

Results of first grade performance are summarized in Table A.12. The analysis of variance indicated that

children of lower-class background placed markedly poorer in percentile ratings than did children of middle-class background (17th percentile, as compared with the 39th percentile). There were mosignificant differences among groups on the Gates Reading Test.

Ratings of Child Adjustment and Performance: Mid-Year Six report card areas were examined: Report Card Grades. Arithmetic, Social Studies, Handwriting Skills, Social Behavior, Work and Study Habits, and Oral Expression (Table A.12). In four of these areas (Arithmetic, Handwriting, Social Behavior, and Work and Study Habits), children of lower-class background were graded significantly lower. The significant interaction effect for Social Studies indicated that the Head Start experience was associated with higher grades for the lower-class children, but with lower grades for the middle-class children. There were no significant differences among the groups with regard to grades in Oral Expression. terms of days absent, middle-class children had significantly better attendance than lower-class children; also, similar to the kindergarten finding, children with Head Start experience had better attendance through the first half of the first grade than did children who had not attended Head Start.

DISCUSSION

In the summer of 1965 the Staten Island Mental Health Society participated in the first national Head Start program. Because of the need for immediate implementation of Operation Head Start, the program was initiated before adequate and effective guidelines could be established, and before appropriate staff selection and training procedure could be effected to produce a coordinated program. In addition, because the initial experience was of only eight weeks duration, a question which must be asked and answered is how generalizable are the results and evaluations of these 8-wk. programs to programs of longer duration. It was with these general limitations that the present evaluation was carried out.

The first specific difficulty which was encountered in the evaluation stemmed from the rush to enroll children, so that they could have eight weeks of Head Start experience. This reflected a commitment to service and the mandate to the urgency of meeting the poverty problem. Time and pressure for service permitting, we would have preferred to have had a large pool of eligible children in order to randomly assign some children to Head Start with the remainder assigned to the untreated, ongoing, neighborhood process.

Our data indicated that during the course of the eight-week program, significant improvement was shown by

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the Head Start children in almost every area explored, despite the fact that selection was biased toward dealing with children from the most severely disrupted families in this area. Despite this improvement over a broad front, the lack of a control group makes any clear interpretation of the finding impossible. On the one hand, the consistency and direction of the findings were impressive. On the other hand, this improvement (a) may have resulted from the passage of time (which, in our experience, is unlikely), and/or (b) may, for some measures, have been the result of observer bias.

Let us assume that the improved scores were indicative of real improvement. What underlying changes did this observed improvement reflect? Was it possible in the course of two months to achieve an average mental age gain of approximately 13 months? Our belief in this regard is that the initial performance of the children was contaminated by their suspicion and distrust of their teachers and test administrators. This contamination was reflected behaviorally in their frequent unwillingness to verbalize, to concentrate, to sit still, and to relax. By the end of the summer these response tendencies seemed to be replaced by experimental reaching out, warming up, and the development of a sense of tentative trust. While the study did not take into direct account the state of emotional readiness of the children in the program, there is support from the

behavioral ratings that there was a progression toward decreased constriction, increased cooperation and sociability, and decreased irritability. The implication here is that services developed to identify and deal with culturally disadvantaged children (in particular) must be cautious in interpreting quantitative findings because the storehouse of information possessed by the children may be largely inaccessible initially.

Our work in the area of relating maternal education attitudes with children's performance, with special focus on culturally disadvantaged families, is admittedly a first step in an area where little prior research has been reported. The fact that Factor I of the parent attitude instrument was related to final measures of the childrent performance on school-type tasks suggests the value of further research to identify which children are most likely to benefit from preschool programming (e.g., Head Start), on the basis of reinforcement systems present in the home.

The initial follow-up occurred three months after the children were first enrolled in public school. It was not possible to obtain these ratings any earlier because of administrative considerations and the time needed by teachers to become familiar with the children. Despite the fact that the Head Start graduates were younger (and probably more disadvantaged because of the selection procedure), the data indicated that these children had

better language skills than did the non Head Start group. Again, we believe that it was the improvement in emotional readiness which allowed the Head Start children to perform better in this area, rather than an increase in their linguistic skills per se. This was suggested by improvement in items reflecting greater activity in speech and movement toward adult objects as sources of information and verification. Insofar as the Head Start program can produce a growth in emotional readiness (i.e., trust in the environment, confidence in self, and identification with the goals of adults), it seems that it serves its major purpose. It appears to us that compensatory preschool programs for disadvantaged children should avoid being early cognitive training programs (academic skill training), until the prerequisite emotional foundation for learning has been carefully and thoroughly provided for each child. While there is a good deal of overlap between emotional readiness and cognitive development programs, it is in their focus on relationships (toward persons or toward tasks) and toward the developmental sequence of abilities that the two programs diverge.

The follow up of children's performance in kinder-garten and first grade resulted in a dissipation of gains. This finding is consistent with other reported Head Start research (Alpern, 1966; Morrisett, 1966; Wolff & Stein, 1966). The observed dissipation in gains in school performance may be due to at least two causes: (a) the

Head Start children may drop to the level of the non Head Start children (i.e., gains relative to the control group are lost), or (b) after initial educational exposure in the public school, the non Head Start disadvantaged children show the same phenomenon of rapid initial growth, thus reducing the relative distance between the two groups. This does not contradict the observations that, despite early absolute gains by lower class children, these children diverge early in level of performance from that of middle class children, and that this divergence between the performance of lower class and middle class children increases over time. It is as if early school experience energizes all children and produces early rapid growth, but the failure to consistently reinforce and support the emotional needs of lower class children reduces their rate of cognitive growth. A common finding in our educational system is that patterns of failure are associated with manifestations of distrust, fear that one's energy output will result in failure, negativism, and apathy with regard to school tasks. In order to promote school success it is our belief that children must be receptive to what is taught rather than being preoccupied with perceptions of the teacher as a punitive, rejecting, and overdemanding person. With the population of children that Head Start is intended to reach, a population characterized by negative perceptions of adults, the



educational process should start with an attack on these negative perceptions; such an attack must be sustained over a sufficiently long period of time if success in the form of good school performance is to be longlasting.

Finally, we would like to suggest a research design for evaluating the effectiveness of Head Start experience. The design requires the formation of at least three types of public school classes, varying in the density of Head Start graduates in each class. The first type of class would consist only of Head Start graduates. The second type would contain a mixture of Head Start and non Head Start graduates. The third type of class would contain no Head Start graduates. Preferably, the subjects would have been placed into a common pool and some randomly assigned to the Head Start program. It would be necessary to replicate this design at several centers in order to reduce bias due to such factors as teacher effectiveness.

SUMMARY

Sixty-one children were enrolled in a summer Head Start Tests of cognitive, perceptual-motor, school readiness, and behavioral adjustment revealed significant initial gains in all areas tested. Teacher ratings of language skills indicated initial superiority of Head Start graduates when compared with their classmates. Final kindergarten report card grades showed no advantage of Head Start children over their peers. By the middle of the first grades, the results indicated that, irrespective of Head Start experience, children identified as being of lower class background were less successful in their school subjects than those described as being middle class; this finding was also obtained on the New York State Readiness Examination. Only in greater frequency of attendance at school did previous Head Start experience have a continuing, positive effect. Limitations in the experimental design were discussed and a design for future research to assess Head Start impact was offered. The results were discussed within a framework of an emotional readiness - educational model.

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APPENDIX A

Summary of Data Analyses

- A.1 Summary of t-tests for Differences Between Initial and Final Performance During the Summer Head Start Program
- A.2 Summary of Centroid Factor Analysis of the Operation Head Start Behavior Inventory
- A.3 Communalities and Loadings After Varimax Rotation of the 50-Item Operation Head Start Behavior Inventory
- A.4 Factor Loadings After Varimax Rotation of the 10-Item Behavior Observation Scale
- A.5 Frequency Distribution (in Per Cent) of Responses of Head Start Mothers to Selected Items About Education
- A.6 Communalities and Loadings After Varimax Rotation of 20 Selected Attitude Variables
- A.7 Correlations Between Maternal Educational Attitudes And Measures of the Child's Adjustment During Head Start
- A.8 Summary of Background Data on Children With and Without Head Start Experience In Kindergarten
- A.9 Summary of t-tests for Differences On the Assessment of Language Skills Scale Between Children With and Without Head Start Experience
- A.10 Summary of Analyses of Variance For Differences in Background Characteristics For Children With and Without Head Start Experience, By Ratings of SES
- A.11 Summary of Analyses of Variance For Differences in Kindergarten Report Card Data For Children With and Without Head Start Experience, By Ratings of SES
- A.12 Summary of Analyses of Variance For Differences in First Grade Performance Data For Children With and Without Head Start Experience, By Ratings of SES

TABLE A.1

Summary of t-tests For Differences Between Initial and Final Performance During the Summer Head Start Program

		tandard	N	ŧ	P
Measure	(Delta)	Error			<.001
Ammons MA	12.87	1.69	54	7.60	
Goodenough DAP MA	5.56	1.29	55	4.30	<.001
000 40.10 18	2.27	0.44	56	5.15	<.001
Bender Gestalt					
Metropolitan Readiness	0.00	0.40	45	5.46	<.001
Word Meaning	2.20 1.49	0.47	45	3.18	<.01
Sentences	1.80	0.46	44	3.91	7.001
Information	1.41	0.51	44	2.77	<.01
Matching	2.05	0.43	43	4.82	<.001
Numbers					
Preschool Inventory				0 03	<.001
Personal Orientation	2.06	0.30	47	6.81	2.001
Personal Orientation	1.46	0.29	48	4.99 5.74	2.001
Body Image Number Concepts	2.48	0.43	48	4,96	₹.001
General Information	3.18	0.64	45	6.13	<.001
Visual Discrimination	4.36	0.71	44 45	5.47	2.001
Relationships	2.24	0.41	44	4.32	2.001
rallering Directions	2.98	0.69 0.28	45	2,43	₹.02
Comprehension of Social Role	s 0.69	0.20	40	- 7	•
Operation Head Start					
Behavior Inventory	2 10	1.05	45	2.09	<.05
Factor I	2.19 2.30	0.88	45	2.61	<.02
Factor II	0.31	0.39	45	0.91	NS
Factor III	0.61	0.28	45	2.18	₹.05
Factor IV	0,02				
Classroom Observations					
	12.53	3.28	61	3.82	<.001
Factor I (1,3,4,6,7)	10.78	2.04	60	5.30	<.001
Factor II (8,9,10)					

TABLE A.2

Summary of Centroid Factor Analysis
Of the Operation Head Start Behavior Inventory

Factor	Root	<pre>% Contribution to Variance</pre>	Cumulative Variance
1	19.63	50.78	50.78
2	7.38	19.10	69.89
3	2.72	7.04	76.93
Ħ	2.36	6.12	83.04
5	1.47	3.81	86.85
6	1.52	3.92	90.77
7	1.33	3.43	94.20
8	1.09	2.81	97.02
9	1.15	2.98	100.00
TOTAL	38.65	100.00	

TABLE A.3

Communalities and Loadings After Varimax Rotation
Of the 50-Item Operation Head Start Behavior Inventory

Ttom No			Loadi	ng on Fact	or
Item No. (Cf. Appendix)	Communalities	Ī	II	III	IV
(Cr. Appendix)	001111111111111111111111111111111111111				
30	.87	.84	13	.35	.15
#3	.73	.83	12	.16	.05
28	.73	7 9	.27	.19	02
49	.72	77	03	.32	.15
12	.64	77	19	14	.01
14	.62	7 5	.18	12	.08
22	.76	7 5	07	37	24
15	.73	.74	14	.35	19
09	.76	.73	18	.42	13
13	.54	. 73	.09	08	.54
11	.68	.73	35	.15	05
17	.72	70	.48	05	.01
50	.46	.66	.15	02	06
32	.55	65	.07	33	11
34	.63	63	.27	36	17
27	.68	.62	19	.21	47
20	.79	.61	55	.07	.33
07	.66	60	04	54	-,01
46	.37	59	.05	.00	15
21	.57	.58	31	.29	23
47	.42	58	.28	06	.05
25	.69	.57	49	.29	. 22
45	.67	.56	42	.28	~. 34
48	.73	.55	.51	. 39	10
35	.60	.51	27	.49	.17 31
01	.62	.48	37	• 40	31
	0.14	.10	.90	.04	.10
rt O	. 84	01	.88	12	.21
18	.84	09	.88	10	.25
36	. 85 77	00	.85	.02	.22
26	.77 .71	.08	84	.05	.03
23	• / <u>1</u> • 7 7	09	.83	09	.25
16	.75	.16	80	.28	.06
02	.73	29	.75	24	09
42	.61	24	.74	.01	.06
19 30	.64	26	.73	.00	.19
10 31	.74	.55	66	05	04
74 3.T	.48	.08	.62	05	.30
37	.57	15	.62	41	.07
38	.61	.28		.12	.45
04	.26	16	43	11	.19
04	• 20	·			

TABLE A.3

Communalities and Loadings After Varimax Rotation
Of the 50-Item Operation Head Start Behavior Inventory

Item No.			Loadi	ng on Fact	tor
(Cf. Appendix)	Communalities	I	II	III	ĪV
·					
30	.87	.84	13	.35	.15
43	.73	.83	12	.16	.05
28	.73	79	.27	,19	02
49	.72	77	03	.32	.15
12	.64	77	19	14	.01
14	.62	75	.18	12	.08
22	.76	7 5	07	37	24
15	.73	.74	14	.35	19
09	.76	.73	18	.42	13
13	.54	. 73	.09	08	.54
11	.68	.73	35	.15	05
17	.72	70	.48	05	.01
50	.46	.66	.15	02	06
32	.55	65	.07	33	11
34	.63	63	.27	36	17
27	.68	.62	19	.21	47
20	.79	.61	55	.07	.33
07	.66	60	04	54	01
46	.37	59	.05	.00	15
21	.57	.58	31	.29	23
47	.42	58	.28	06	.05
25	.69	.57	49	.29	.22
45	.67	.56	42	.28	34
48	.73	.55	.51	. 39	10
35	.60	.51	27	.49	. 1.7
01	.62	.48	37	.40	31
40	Oti	10	.90	.04	.10
18	. 84	.10 01	.88	12	.21
36	.84 .85	09	.88	10	.25
26	.77	00	.85	.02	.22
23	.71	.08	84	.05	.03
16	.77	09	.83	09	.25
02	.75	.16	80	.28	.06
42	.71	 29	.75	24	09
19	.61	24	.74	.01	.06
10	,64	26	.73	.00	.19
31	.74	.55	66	05	04
44	.48	.08	.62	05	.30
37	.57	15	.62	41	.07
38	.61	.28	56	.12	.45
04	.26	16	43	11	.19
.	• • •			-	,

TABLE A.3 (continued)

05 24 33 39 08	.83 .79 .64 .69	.23 .33 .07 .24 .50	13 04 13 22	.87 .82 .78 .76	03 .10 .07 .07
06 29 03 41	.58 .35 .24 .11	30 .23 23 .12	.28 .13 .10	36 .17 .01	.53 .50 .42

TABLE A.4

Factor Loadings After Varimax Rotation
Of the 10-Item Behavior Observation Scale

		Loading	on Factor	
Ite	m	I	II	
1.	Cooperation with Adults	.80*	.25	
2.	Peer Relationships	.43	.70	
3.	Aggressive Reactions	.92*	02	
<u>.</u>	Ability to Postpone Gratification	.84*	.28	
5.	Independence	.35	.66	
6.	Restraint of Motor Activity	.82*	.13	
7.	Type of Motor Activity	.78*	.27	
8.	Activity vs. Passivity of Speech	.00	.77*	
9.	Verbal skills	.17	.94*	
10,	Quality of Speech	.13	.83*	

^{*}Items given equal weighting in computation of factor scores.

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Table A.5

Frequency Distribution (in Per Cent) of Responses of Head Start Mothers To Selected Items About Education

= A; Mildly Agree = a; Mildly Disagree = d; Strongly Disagree = D) (Strongly Agree

Items		A	ರ	יס	Д	(N)
2.	I have obtained as much education as I wanted.	†	ထ	27	L S	(64)
ۍ.	Poor people have just as good a chance to get ahead as anybody else.	5 3	12	16	18	(61)
7.	Public schools in this neighborhood are too crowded.	50	13	77	13	(38)
10.	Teachers don't know enough about the kind of kids who come from this neighborhood.	35	18	20	28	(40)
	The members of different races and religions have just as good a chance to get ahead as anybody else.	59	18	#	18	(6+)
13.	The schools don't pay enough attention to children who find learning difficult.	21	17	23	ထ က	(47)
14.	The schools don't pay enough attention to children who are smarter than average.	20	13	30	37	(94)
16.	Teenagers go to school because they have to, not because they want to.	13	30	28	30	(41)
20.	Today's schools are neglecting reading, writing, and arithmetic.	တ	14	단	99	(44)
26.	Right from the very first grade, teachers should teach the child at his own level, rather than at the level of the grade he is in.	09	13	10	75.	(8 h)

(2	(9†)	(64)	(81)	(84)		N=(52)
Д	11	±	23	23		
יסי	30	20	10	15	5 8 2 8 1 6 8	
ď	28	27	r e	19	4	
Ą	30	6	35	† †	- 00 - 00	មេ មេ មេ
Table A.5 (continued)	It is better to base learning on the child's own experience than around specific subject matter.	Education should emphasize competition because life is essentially a struggle.	Teachers should keep in mind that pupils are lazy and have to be made to work.	Teachers should be allowed to teach what they think is right and proper.	Do you think your child has as good a chance as any other child of doing well in school?	 (1) very poor (2) fairly poor (3) average or mixed (4) fairly good (5) very good Total
Item	30.	3th.	35.	36.	• 9 1	

	N=(5)
	24 51 25
Would you be disappointed if your child brought home a report card from school and all the grades were:	(1) D's (2) all C's (3) all B's Total

48.

N=(52)

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(N)

N=(53)

୫୧		30 30		3 9 57		2 3 4 4 7 7 7		4:22 53 53 53 53 53 53 53 53 53 53 53 53 53
	Do you think that parents should help children with their homework?	(1) NEVER help (2) SOMETIMES help (3) ALWAYS help Total	Do you feel that your child will be learning about things which will be useful for him in his later life?	 (1) definitely useless in later life (2) probably useless (3) mixed or neutral (4) probably useful (5) definitely useful Total 	In general, what kind of job do you feel the public schools are doing?	 (1) very poor (2) poor (3) fair (4) good (5) excellent Total 	How well did you get along with your teachers when you went to school?	 (1) very poorly (2) fairly poorly (3) average or mixed (4) fairly well (5) very well Total
Item	52.		56.		63.		• 1 9	

N=(53)

N = (52)

N=(53)

Table A.6

Communalities and Loadings After Varimax Rotation of 20 Selected Attitude Variables

Item #	Communal- ities	I	II	III	IV
2	.37	02	.26	.30	.47
5	. 64	18	.02	.74	.23
7	.20	.01	.10	42	.08
10	. 24	.33	.35	.09	04
11	.54	58	.12	.45	.01
13	.54	.64	05	09	35
14	.62	.45	.62	~.15	.10
16	.27	.05	.45	.01	.25
20	.53	.66	03	30	05
26	.34	.56	09	.13	04
30	.16	14	05	.01	.37
34	.23	.17	36	09	. 24
35	.61	.43	.20	.60	.13
36	.39	17	03	.43	.42
46	.46	.07	.18	.14	64
48	.17	03	12	12	37
52	.17	19	.29	.26	.05
56	.08	11	.26	07	.03
63	. 54	.43	.55	05	21
64	.76	13	.85	.10	08

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TABLE A.7

Correlations Between Maternal Educational Attitudes And Measures of the Child's Adjustment During Head Start (df=60)a

			b(nomid)	5 (1)				
•	H	Initial Pe Attitude	Performance Ide Factor	ance or	ţ	inal Pe Attitud	erformance de Factor	
Measure	Н	II	TII	ΛI	H	H	III	IV
Ammons MA	001	-026	124	083	7.40-	028	168	0.40
Goodenough DAP MA	-130	111	980-	-042	-091	-061	180	-125
Bender-Gestalt	-076	-039	153	027	1190	-051	115	~
Metropolitan Readiness								
Word Meaning	-005	S		\vdash	23	9	0	α
S. utences	090-	ന		02	14	0	100	
Information	-075	S		Ľ~	32	0	02	(C)
Matching	-147	095	018	240-	-235	080	030	40
Numbers	-078	0		9	29	က	043	062
Preschcol Inventory								
	#	~	043	5		13	(1)	⇉
Body Image	-160	081	160	141	226	-016	0 10	3 C C
Number Concepts	0	2	002	7	257	03	01) C
General Information	ന	0	090-	တ	\vdash	07	CV	; _
Visual Discrimination	2	0	0.74	⇉	357	9	† O	. O
Relationships	ヰ	2	045		301	00	00	-
Following Directions	\vdash	9	095		345	2	1	- =
Comprehension of					•	!	•	-
Social Roles	-230	-121	028	008	-308*	-151	840-	025

TABLE A.7 (continued)

| T| | >|

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ນ ບ ນ ນ ບ ທ

	ΛI		120 121 1019	_	-236 096
Performance ude Factor	III		027 016 038	S	088 106
Final Perf Attitude	II		027 -026 -001	ရ ဂ	0 % 0 8 9 0 8 9
	H		1000	†	-065 -135
Performance ide Factor	ΛI		1 2 t 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0 1	-283* 005
	III		061 089 079	•	049 261*
Initial Pe Attitude	II		000 ± 000 ±		018
In	н		-135 -127 -127 042	!	1392
	Measure	Operation Head Start Behavior Inventory	Factor 1 Factor 2 Factor 3 Factor 4	Classroom Observation Rating Scales	Factor 1 Factor 2

Ameans were used to estimate missing data by < .05

< .05

Summary of Background Data on Children With and Without Fead Start Experience In Kilders ten and Post Joseph

Variable	. Children Head Start I		Children Without Head Start Experience				
Agrapte	(N=27			(N=127))		
	<u>M</u>	SD	<u>M</u>	SD	<u>t</u>	<u>p</u>	
Age	67.78	5.97	72.72	6.88	-3.80	<.01	
No. of Children	3.67	1.33	3.85	1.77	-0.61	NS	
Birth Order	2.44	1.28	2.59	1.71	-0.49	NS	
	Childrer Head Start E		Children Without Head Start Experience				
					$\frac{x^2}{x}$	<u>P</u>	
	<u>Ma_e</u>	<u>Female</u>	Male	<u>Female</u>			
Sex	14	13	69	58	.000	NS	
	White	Negro	White	Negro		•	
Race	11	16	41	86	.384	NS	
	Eng.	Other	Eng.	<u>Other</u>			
Language at Home	22	5	106	21	.001	NS	
	<u>K</u>	<u>lst</u>	<u>K</u>	lst			
School Grade	22	5	60	67	9.154	<.01	

* ERIC *Full Text Provided by ERIC

TABLE A.9

Summary of t-tests for Differences
On the Assessment of Language Skills Scale
Between Children With and Without Head Start Experience

		Children With Children Without Head Start Head Start		t		
		rience	Exper			
0 - 4		:27)		127)	t	P
Scale (Item)	M	SD	M	SD		
A. Language Stru	cture					
(1)	1.50	0.99	1.73	0.94	-1.07	NS
(2)	1.19	0.56	1.56	0.95	-2.74	4.01
(3)	2.07	1.27	2.23	1.17	=	NS
(4)	3.22	0.85	2.98	0.74		ns
(5)	3.89	1.16	3.17	1.24	2.91	4.01
B. Speech Produc	tion					
(1)	4.00	1.33	3,42	1.28	2.08	∠.05
(2)	4.19	1.15	3.60	1.14	2.41	4.05
(3)	4.04	1.09	3.44	1.20	2.53	∠.05
C. Naming						
(1)	4.26	0.86	3.73	1.07	2.75	<. 01
(2)	4.11	1.01	3.74	1.08	1.70	NS
(3)	4.15	0.95	3.74	1.11	1.95	NS
(4)	4.22	1.12	3.74	1.18	2.00	∠.05
(5)	4.37	1.01	3.86	1.14	2.31	<.05
D. Linguistic Sk	ills		;			
(1)	3.39	1.39	3.25	1.16	0.47	NS
(2)	3.12	1.37	2.82	1.09	1.07	NS
(3)	3.27	1.46	2.99	1.31	0.92	NS
(4)	3.15	1.38	2.75	1.16	1.39	NS
(5)	3.12	1.40	2.69	1.15	1.46	NS
(6)	2.77	1.31	2.43	1.83	1.25	NS
(7)	2.39	1.42	2.17	1.08	0.74	NS
(8)	2.15	1.41	2.11	1.09	0.14	NS
(9)	2.92	1.50	2.62	1.17	0.99	NS
(10)	2.81	1.39	2.73	1.30	0.25	NS
(11)	2.89	1.21	2.79	1.18	0.37	NS
E. Auditory Disc	rimination					
(1)	4.65	0.75	3.87	1.24	4,31	∠.01
(2)	4.50	0,95	3.60	1.36	4.09	₹.01
(3)	4.23	1.31	3.68	1.34	1.95	NS
(4)	3.39	1.06	3.32	1.17	0.30	NS

TABLE A.9 (continued)

	Children With Head Start Experience (N=27)		Childre Head Expe	t		
Scale (Item)	M	SD	M	SD	t	P
F. Listening C	comprehension					
(1)	4.37	1.02	3.71	1.22	2.79	<.01
(2)	3.46	1.30	3.13	1.11	1.21	NS
(3)	3.23	1.28	2.99	1.09	0.92	NS
(4)	2.85	1.29	2.62	1.10	0.85	NS
(5)	2.96	1.25	2.78	1.22	0.66	NS
(6)	3.65	1.13	3.40	1.06	1.06	NS
(7)	3.65	1.38	3.42	1.34	0.79	NS

Summary of Analyses of Variance for Differences in Background Characteristics For Children With and Without Head Start Experience, By Ratings of SES

		Means			Mean ²			
Characteristic	NHS/LC	NHS/MC	HS/LC	HS/MC	Square	df	F	<u> </u>
Age	71.22	71.29	71.17	69.00	11.52 9.15 10.45 10.74	1 1 1	1.07	ns
No. of Children in Family	4.22	3.65	3.50	3.29	2.45 1.30 0.27 1.84	1 1 1 35	1.33 <1 <1	NS
Sex (M=1;	1.33	1.41	1.33	1.57	0.05 0.21 0.05 0.26	1 1 35	<1 <1 <1	ns ns ns
Race (W=1; N=2)	1.78	1.53	1.83	1.43	0.00 0.89 0.05 0.35	1 1 1 35	<1 2.52 <1	ns ns ns

¹NHS/LC= Non Head Start, lower class
NHS/MC= Non Head Start, middle class
HS/LC= Head Start, lower class
HS/MC= Head Start, middle class

First Mean Square is NHS/HS. Second is LC/MC. Third is the interaction effect. Fourth is within cells.

TABLE A.11

Summary of Analyses of Variance
For Differences in Kindergarten Report Card Data
For Children With and Without Head Start Experience,
By Ratings of SES

		Means ¹ Mean ²			Mean ²	n^2		
Measure	NHS/LC	NHS/MC	HS/LC	HS/MC	Square	df	P	<u> </u>
Social Behavior	3.00	3.29	2.50	2.70	2.77 0.55 0.02 0.62	1 1 1 42	4.50 <1 <1	.05 NS NS
Work and Study Habits	3.00	3.24	2.67	2.60	2.22 0.07 0.22 0.61	1 1 1 42	<1 <1 <1	ns ns ns
Oral Expression	2.67	3.38	2.83	3.00	0.11 1.82 0.70 0.33	1 1 1 42	<1 5.56 2.15	NS .025 NS
Health Education	3.11	3.4 3	3.00	3.40	0.05 1.21 0.02 0.34	1 1 1 42	3.52 <1	ns ns ns
Absence	30.11	21.14	15.00	23.80	338.11 0.06 688.23 137.93	1 1 1 41	2.45 <1 4.99	NS NS .05

^{1,2} See footnotes, Table A.10.

Summary of Analyses of Variance For Differences in First Grade Performance Data For Children With and Without Head Start Experience, By Ratings of SES

TABLE A.12

	Means Mean Mean Mean Mean Mean Mean Mean Mean			Mean ²				
Measure	NHS/LC	NHS/MC	HS/LC	HS/MC	Square	df	<u>F</u>	<u> p</u>
N.Y. State Readiness	17.29	41.55	16.17	32.33	226.99 3473.31 139.32 458.19	1 1 1 38	∠ ₁ 7.58 ∠ 1	NS ረ.01 NS
Gates	0.77	1.30	0.85	0.91	0.21 0.75 0.47 0.36	1 1 1 40	ζ1 2.06 1.30	ns ns ns
Arithmetic	2.00	3.24	2.50	2.70	0.00 4.86 2.53 0.75	1 1 1 42	∠1 6.50 3.39	NS \(\lambda \). 025 NS
Social Studies	2.33	3.14	2.83	2.70	0.01 1.07 2.09 0.46	1 1 1 42	41 2.31 4.50	NS NS ∠.05
Handwriting Skills	2.44	3.19	2.00	3.10	0.67 8.01 0.29 0.63	1 1 1 42	1.07 12.76 41	NS 4.001 NS
Social Behavior	2.22	3.10	2.20	2.60	0.58 3.53 0.49 0.50	1 1 1 41	1.16 7.04 41	NS 4.025 NS

TABLE A.12 (continued)

•	NUC /I O	Means NHS/MC	HS/IC	HS/MC	Mean ² Square	df	F	Þ
Measure	NHS/LC	MUSTAC	110/110	1107110	oquaro			
Work and Study Habits	1.89	3.24	2.00	2.90	0.12 11.89 0.47 0.66	1 1 1 42	∠1 18.10 ∠1	NS <.001 NS
Oral Expression	2.44	3.05	3.00	2.78	0.18 0.33 1.56 0.72	1 1 1 40	∠1 ∠1 2.17	ns ns ns
Absence	12.78	6.95	8.33	5.00	96.19 197.19 14.60 17.14	1 1 1 42	5.61 11.51 <1	

^{1,2}See footnotes, Table A.10.

APPENDIX B

- B.1 Bender-Gestalt Reproductions Scoring Manual
- B.2 Preschool Inventory and Scoring Manual
- B.3 Operation Head Start Behavior Inventory
- B.4 Classroom Observation Rating Scales
- B.5 Assessment of Language Skills of 3-6 Year-Old Children

Appendix B.1

BENDER GESTALT REPRODUCTIONS SCORING MANUAL

Directions:

Score plus if child demonstrates mastery at perceptual ages indicated in parenthesis score is highest perceptual age on each design. Then sum scores on each design and divide by number of scorable designs to arrive at perceptual age estimate.

Design

- A circularity (3) squaredness (5) diamondness (7)
- scribble (3)
 crude circles (4)
 clear circles spaced (5)
 dots (6)
- 2 scribble (3)
 crude circles (4)
 ordered circles
 incomplete rows (5)
 ordered complete circles
 and slant (6)
- scribble (3)
 crude circles (4)
 crude circles horizontal
 drift incomplete rows (5)
 0's approx. of X'mas tree design
 proper angulation (6)
 dots, good rows, angulation (7)
- scribble (3)
 2 figures may be closed crude (4)
 2 open figures crude (5)
 2 open figures approaching
 good curvilinearity and angularity (6)
- scribble (3)
 crude continuous line up of Gestalt (4)
 rep into discrete circles crude (5)
 good circles good Gestalt (6)
 dots good Gestalt (7)

```
scribble (3)
2 lines - not connected (Intersect) (4)
intersecting lines - no curves (5)
intersecting with waves (crude) (6)
intersecting with good waves and
intersecting near midpoint (7)

7 scribble (3)
2 closed figures - crude (4)
2 closed elongated figures (5)
angularity, elongation, crude
integrated (6)

8 scribble (3)
2 closed figures - enclosed, crude (4)
```

2 closed - enclosed, elongated (5)

2 closed - good Gestalt (7)

2 closed - enclosed, elongated with angles and 2 closed - enclosed, elongated with angles (6)

Appendix B. 2

PRESCHOOL INVENTORY

ASK	the cuitd the following duescion		Knows	Down Not
1.	What is your name?		1	`
2.	If child gives first name only, name; for example, "Johnny what? last name?"	probe for last What's your	2	
3.	Give the child a sheet of plain a crayon and say, "Draw me a pi a whole man, not just part of the child has finished, say, "Ve the drawing and continue with th	cture of a man a man." After ry good, "take	3	
4.	How old are you?		4	
5.	When is your birthday?		5	
δ.	Where do you live?		6	<u>-</u>
7.	What school will you go to?		7	
8.	What is your teacher's name?		8	*************
9.	Who are some of the children in Probe for five names. If child only, say "X who?"	your group? says first name irst names	9.	3 4 5
10.	Last names		10.	3 4 5
	Point to the following parts of body and say, "What is this?" A items missed, "Show me your	fterwards for all	ļ	
11.	Ear	Gives Name		
12.	Finger	12	-	demonstrative for the second
13,	Ñeck	13		
14.	Back	14		
15.	Eye	15.		
16.	Elbow	16		
17.	Heel	17		·

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		Gives Name	Shows	Wrong
18.	Shoulder	18		
19.	Eyebrow	19		
20.	Knee	20		
	• • • • • • • • • • • • • • • • • • •		- ·	- -
	Ask "How manydo you have?"		•	Wrong
21.	Eyes			
22.	Noses			
23.	Ears		23	
24.	Heads		24	
25.	Feet		25	
26.	Hands		26	
27.	Toes		27	
28.	Mouths		28	
29.	Necks		29	
30.	Broken arms (or something else the continuously doesn't have to elicit "no	hild ne")	30	
	Ask "How many wheels does a hav	'e?"		
31.	Car		31	
32.	Bicycle		32	
33.	Tricycle (or baby bicycle)		33	
34.	Wheelbarrow		34	
35.	Rowboat		35	سسسيس بئي
			1	2 3 4 5
36.	no responsé, start child by saying,"	"One,	36	
37.	"Do you know what a corner is? Show (hold up piece of paper).	w me"	37.	n can't
38.	"How many corners does this sheet of paper have?"	f	38.	ows doesn't
				77

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For the next few items the examiner takes out the box of 12 checkers, all the same color. After the child has had the opportunity to manipulate them briefly, the E. takes them, socing that all the checkers touch one another, and does the following:

Put the checkers in two groups (all flat on the table) of varying numbers in front of the child and ask (pointing consecutively to the two groups) "Which one has more checkers in it?"

Right Wrong

U	•	U	u,	μ	S

41. 6 & 6

39.	2 8	Ę 8	39	
40.	5 8	Ę 6	40	

42. Recombine and make two groups of 8 and 2. Say, pointing, "Which group has fewer? Less?" 42.

Examiner removes 7 checkers, leaving 5, and instructs the child as follows: "Put these checkers next to each other in a line/row." Examiner sees to it that a half-inch space is made between each two blocks. Give whatever guidance is needed to yield a fairly straight row. Say:

Right Wrong

43. "Give me the middle one." (Note: credit first or last in terms of child's choice, i.e., either end of the row of blocks. All subsequent choices would be consistent with that choice, however.) 43.

					•
44.	"Give me the	first	one."	44	

45, "Give me the <u>last</u> one." 45._____

46. "Give me the second one." 46.

47. "Give me the next-to-last block."

47. Annual the checkers in a row contiguous

Next, line up the checkers in a row, contiguous. "Let's pretend this is a train. You know what a train is, don't you? You know it has lots of cars one after the other, like this."

48. "Do you know what we call the first car, the one that pulls the train?" (probe to elicit engine) 48.

49. "What do we call the last car on a freight train?"

If no correct response is given to either of the above:

50. "What pulls the train, the engine or caboose?"

50. _______

51. "What do we call the last car on the freight train, the engine or the caboose?" 51._____



	and square drawn on it. As	k him to nam	e:	
52.	"What do we call this?"(cir	cle)52	Cimilal W.	——————
53.	(lin	e) 53		
54.				
55.				
	"Now I'd like you to make s	ome drawings	: Make one 1	like this:"
		Recog	nizable Un	nrecognizable
56.	Line	56		
57.	Circle			
58.	Square			
59.	Triangle			
	"Which one is most like a	•		Wrong
60.	Wheel		60	•
61.	Window		61	
62.	Piece of string		62	
63.	Tent or teepee		63.	
64.	Ice cream cone		64	
65.	Plate or dish		65	
66.	Stick			
	"Which is bigger, aor a	·		
67.	Bell or bicycle		67	
68.	Tree or flower		68	
69.	Telephone or television		69	
70.	Man or boy		70	
71.	Mosquito or grasshopper		71	
72.	Fly or butterfly		72	
6 .7	'Which usually goes slower,	a or a		
73.	Horse or dog		73	
74.	Car or bicycle		74	
				Annual Control of the

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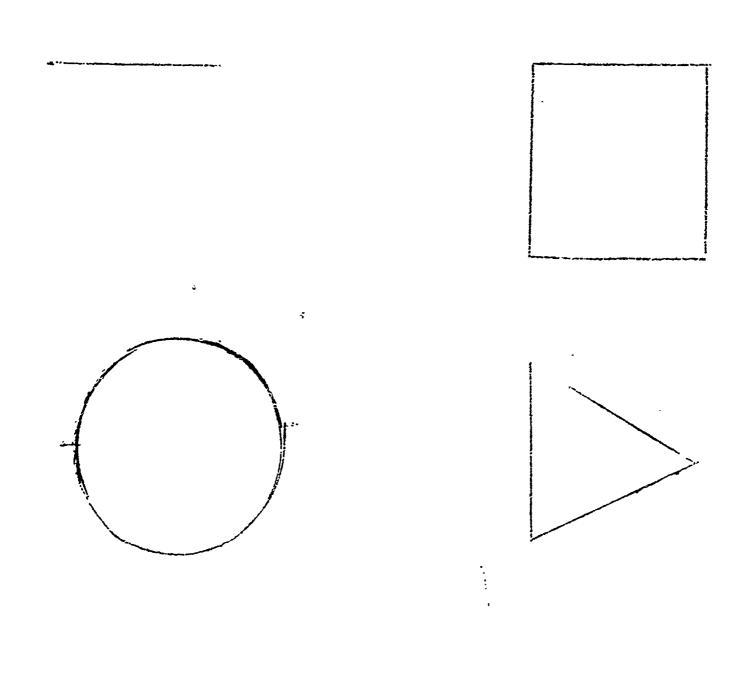
			Right	Wrong
75.	Train or rocket .		75	
	"Which is heavier, a or a	?1;		
76.	Butterfly or bird		76	
77.	Brick or shoe		77	and the second second second
78.	Feather or fork		78	
	"î want you to do the followi	ing things fo	or ./	
79.	Close your eyes		79	
80.	Raise your hand		80	*
81.	Show me your teeth		81	
82.	Show me your fingernails		82	
83.	Sit		83	
84.	Say "Hello" very loudly		84	
85.	Say "Helloe" very softly		85	
86.	Stand up		86	
87.	Turn around		87	
88.	Face the door		88	
89.	Jump		89	
90.	Sit down		90	
	"Think of all the things you to eat and the things she gi with. Name all the things y	ves you to e ou can think	at	
91.			91.	
	Place the 8 crayola crayons intensity crayons of red, or blue, violet, brown and black line them up about 1/2 inch child to name them for you. name all correctly, for thos "point to theone."	ange, yellow } on the tab apart. Ask If he does	high , green, le and the not	Pointed Wrong
92.	Red	92		
93.	Yellow	93		

			Right				Wrong
: 94.	Örange	. 94					
95.	Green	95	•			مسيحه استينيوه	
96.	B1ue	, 96	•				
97.	Purp1e	97	•			<u> </u>	
98.	Brown	98				<u> </u>	
99.	Black	99	·				
•	With the crayons still on a questions. If he gives an he doesn't know, have him still misses, score "wrong	incor show y ."	rect and ou the	nswer cole	r or 1 or.]	indicate If he Poi	S
							g
100.							
101.							-
102.	Snow	102					
103.	Carrot	103	·		_ _		
104.	The sky	104					
105.	3	105					
	"Have you ever been on a s and down and back and fort	wing? h?" (a	You k accompa	now ny w	how i	t goes esture)	.up
			Sa	ys	Si Righ	hows t Wro	ng
106.	Which way does a saw go?		106				
107.	Which way does an elevator		107				
108.	Which way does a ferris wh	ee1	108		<u></u>		
109.	record go?		-		<u> </u>	_	
110.	Which way does a waterfall	go?	110				
•	Record responses to the fo Score as 2 (clear, correct	11owi :), 1	ng item (approx	ımat	,1011	O (MION)	g). O"
111.	When do we eat breakfast?		111	~ 		-	and the same of th
	· · · · · · · · · · · · · · · · · · ·		···				

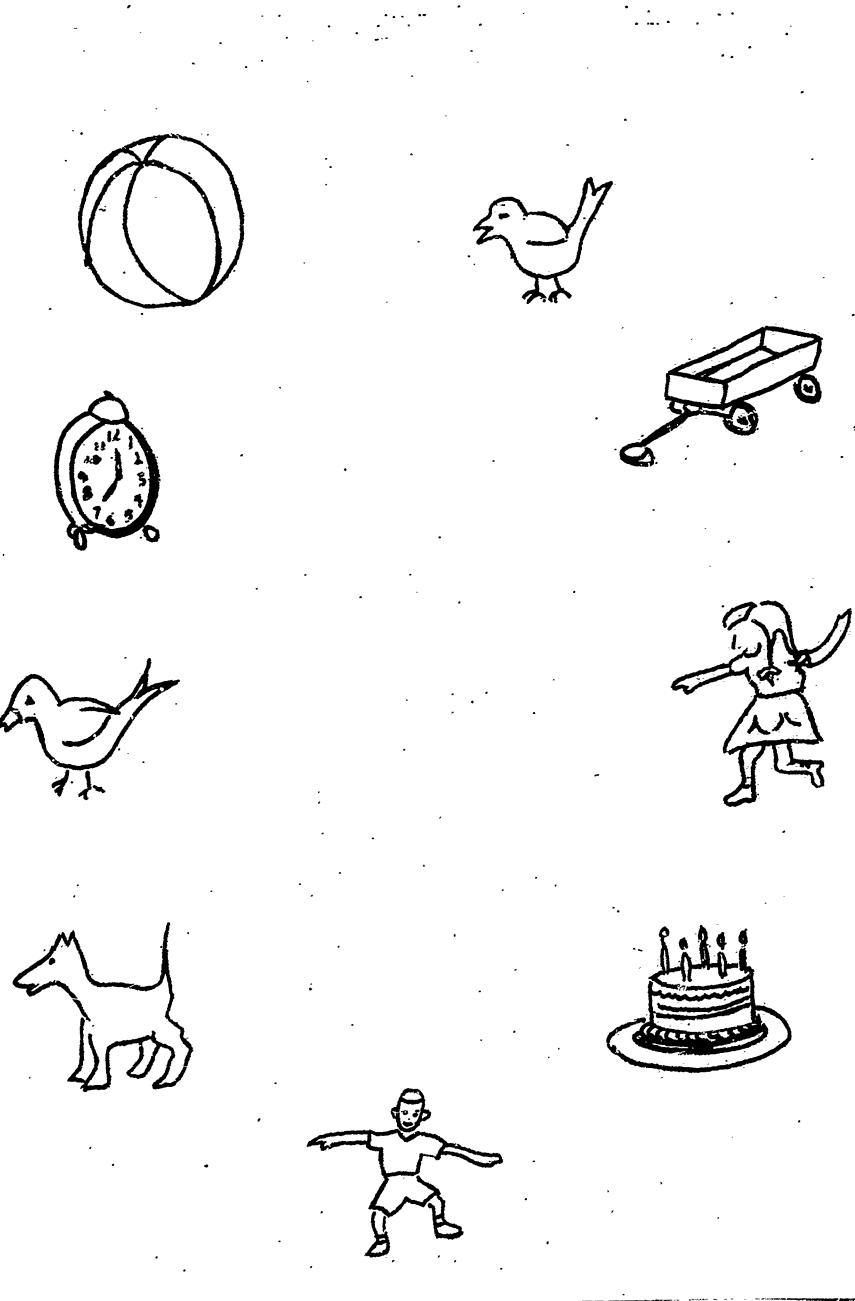
131.	table and all the boxes on the side. 131. AL	he othe	er	ALL 1	BOXESO	THER
132.	Put 3 cars in the big box.	132.	31			
133.	Put 2 cars behind the box in middle.	the 133.	2BE	HIND	_MIDDLE	
134.	Give everything to me.	134.				
•	Record answers verbatim. Fu	nction	Neg.	Pos.	Assn'n.	Wrong
135.	What does a doctor do?					
	135					
136.	What does a policeman do?			************		
137.	What does a dentist do?					
	137					
138.	What does a teacher do?					···
	138		بالمشاوات والاستيادي			
139.	What does a father do?					
	139					
140.	What does a nurse do?					
	140		·			
141.	What does a mother do?					
	141	···	***	, and an experimental section of the		***************************************
142.	What does a soldier do?					
	142.				-	
	Take out the printed sheet at these pictures? I'm going to cake, like this." E draws child and say, "Now you do	o graw Line wi	2 11116		, 001 99	V V
	•••			Yes	No	
143.	Traces successfully			143	and the second s	
	"I want you to draw some morme, one at a time. Draw a lato the"	re line line fr	s for om the			

			1: 2 4:	"1"	11011
112.	What day do people go to church?	1i	*******		
113.	What day is today?	113.	-		
114.	When your mother says it's time to bed, what is it like outside?	o go to			
115.	What do we call the time of the years when it is hottest?	ear			
116.	What do we call the time of year wit is coldest?	when	*		aller steller
117.	What time of year is it now?	117.		-	
118.	If your mother wanted to call up a talk to a friend, what would she u				
119.	If you want to find a lion where wyou look?		************		
120.	If you wanted to buy some gas, whe would you go?	ere120.			
121.	If you were sick, who would you go	to?	and and an arranged	graphic franchista	-
122.	If you wanted to find a boat, wher you look?		······································	مشيششد منده	vibrios de Assessa de San
123.	If you wanted to read something, wyou do?		-		-
	Take out the three cars; red, yell and the three boxes, black, white, black box is bottom up. After eac cars in front of the child and put	and green h item, re	n. Be s eplace t		
124.	Put a car on a box.	124.	ON	Winds despitable () and	
125.	Put a car in a box.	125.	IN_		
126.	Put a car under a box.	126.	UNDER _		
127.	Put the red car on the black box.	127.RED	_BLACK_	ON	
128.	Put the blue car on the green box.	128.BLUE_	ON	_GREEN_	
129.	Put the yellow car on the little box.	129.YELLOW	von_	LIT	rle
	Put one car in the middle-sized bo				

YES NO 144.____ Bird to wagon 144. `145.____ Clock to cake 145. 146.____ 146. Dog to boy 147.____ Girl to ball 147. 148.____ 148. Bird to other bird







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KEY TO SCORING PRESCHOOL INVENTORY

SCALE I: Personal Orientation (person, place, time)

One point each for items #1, 2, 4, 5, 6, 7, 8

Two points each for items #9/(if 3 or more names; 1 point if 1 or 2 na es); #113 and #117 (if clear and correct; 1 point for approximation).

TOTAL: 15 points

SCALE II: Body Image (recognition of body parts)

Two points for naming, one point for showing items #11 thru 20.

TOTAL: 20 points

SCALE III: Number Concepts (cardinal and ordinal numbers)

One point each, items #21 thru 47; do not score #37 or #38.

TOTAL: 25 points

SCALE IV: General Information

... Two points each if correct on # 48, 49.

One point #50 if correct and if zero on #48
One point #51 if correct and if zero on #49
Two points each if said correctly, #106 thru #112, 114 thru 116,
118 thru 123.
One point each if shown correctly

TOTAL: 36-points

SCALE V: Visual Discrimination and Association (shape and color)

Two points—each if named correctly, 1-point each if describes similar object, items #52 thru 55.

Two points each if—named correctly, 1 point each if pointed correctly, items #92 thru 105.

TOTAL: 36 points

SCALE VI: Relationships (concepts of similarity and difference, shape, size, speed, and weight

One point each, items #60 thru 78.

. TOTAL: 19 points

SCALE VII: Following Directions

One point each, items #79 thru 90, 124 thru 126, 134, 143 thru 143.

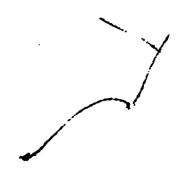
One point for each of two units in item #132; one point for each of three units items #127 thru 130, 133; one point for each of four units, item #131.

TOTAL: 43 points

SCALE VII: Comprehension of Social Roles

Two points each, if function described correctly, one point each for general association, items #135 - 142.

TOTAL: 16 points





OPERATION HEADSTART BEHAVIOR INVENTORY

Instructions

Please describe as accurately as possible how this child behaves by circling one of the four responses to each question:

- ++ (Very Much Like)
 - + (Somewhat Like)
 - (Very Little Like)
- -- (Not At All Like)

Please give a response to every item and base your response upon your personal observation and experience with the child.

		Very Much Like	Some- What Like	Very Little Like	Not At All Like
J1.	Is usually carefree; rarely becomes frig or apprehensive.	htened ++	+	<u>.</u> ·	
] 2.	Is sympathetic, considerate, and thought toward others.	ful ++	+	-	
3.	Is easily distracted by things going on ar him.	ound ++	÷	-	
4.	Is very suggestible; lets other children b him around.	oss ++	+	-	***
5.	Talks eagerly to adults about his own expand what he thinks.	eriences ++	; +	-	
6.	Is unduly upset or discouraged if he make mistake or does not perform well.	es a ++	+	-	
[]] 7.	Often keeps aloof from others because he uninterested, suspicious, or bashful.	is ++	+	_	ep (v
8.	Defends or praises his own efforts.	++	+	~	ar os
9.	Is confident that he can do what is expected of him.	ed ++	÷.	~	~ ••
10.	Is jealous; quick to notice and react negate to kindness and attention bestowed upon o children.	ther	+		·
	* ************************************	++	т	-	-

ERIC ENIDERS PROVIDED ENIO

		Very Much Like	Some what Like	Very Little Like	Not At All Like
11.	Is methodical and careful in the tasks tha				-
	he undertakes.	++	+	-	
	Is rarely able to influence other children	by	+	_	
	his activities or interests.	++	·	_	
13.	Tries to figure out things for himself before asking adults or other children for help.	ore ++	+	-	- •
14.	Greatly prefers the habitual and familiar	to			
	the novel and the unfamiliar.	++	+	-	
15.	Appears to trust in his own abilities.	++	+	-	
16.	Has little respect for the rights of other				
i,d	children; refuses to wait his turn, usurps toys other children are playing with, etc.	++	+	•	ado que
□ 17.	Seems disinterested in the general qualit of his performance.	y ++	+		## # #
∐ ₁₈ .	Responds to frustration or disappointment by becoming aggressive or enraged.	nt ++ ·	+	-	
∐ 19.	Is excessive in seeking the attention of adults.	++	+	e	
[∐] 20.	Sticks with a job until it is finished.	++	+	-	
21.	Goes about his activities with a minimum of assistance from others.	++	ŕ.	-	
22.	Is constricted, inhibited, or timid; needs to be urged before engaging in activities.		+	•	4 -
23.	Is even-tempered, imperturable; is rare annoyed or cross.	:ly ++	+	•	·
24.	Is reluctant to talk to adults; responds venily when urged.	erbally ++	+	, ••	•• ,
25.	Works earnestly at his classwork or play doesn't take it lightly.	y, ++	+	•	
26. ERÎC	Is often quarrelsome with classmates for minor reasons.	++	+		

		< 4 i			
	•	Very Much <u>Like</u>	Some What Like	Very Little Like	Not At All Like
27.	Does not need attention or approval from adults to sustain him in his work or play		+	-	
28.	When faced with a difficult task, he either does not attempt it or gives up very quic		+	-	
29.	Doesn't like to be interrupted when enga in demanding activities, e.g., puzzles, painting, constructing things.	ged ++	÷	-	
30.	Welcomes changes and new situations; is venturesome, explores and generally enjoys novelty.	++	+	•	
31.	Calmly settles difficulties that arise without appeal to adults or others.	++	+	••	60 50
32.	Is reluctant to use imagination; tends not to enjoy "make-believe" games.	++	+ .	-	
33.	Likes to talk with or socialize with teacher.	++	+	. ·	••
34.	Often will not engage in activities unless strongly encouraged.	++	· + · ·	-	••
35.	Is eager to inform other children of the experiences he has had.	++	+	•	
36.	Emotional response is customarily very strong; over-responds to usual classroom problems, frustrations and difficulties.	m	+	·	447 454
37.	Is uncooperative in group activities.	++	+	•	as es
38.	Is usually polite to adults; says "please, "thank you," etc.	11 ++	₫.	-	
39.	Asks many questions for information about hings, persons, etc. (Emphasis here shows on questions prompted by genuine currather than bids for attention.	ould	+	-	••
40.	Usually does what adults ask him to do.	++	· +	•	
41.	Requires the company of other children; difficult to work or play by himself.	finds it	+	-	•••• : .
42. ERIC	Responds to frustration or disappointment becoming sullen, withdrawn, or sulky.	nt by	∳	•	·

c 4 %

	•	Very Much Like	Some what Like	Very Little Like	Not At All Like
43.	Demonstrates imaginativeness and creativity in his use of toys and play materials.	++	+	-	**
44.	Insists on maintaining his rights, e.g., will not yield his place at painting, or at the carpentry bench, etc.; insists on gett his turn on the slide or in group games,				
	etc.	+;+	+	-	e
45.	Is wanted as a playmate by other children	n. ++	+ .	· .	us es
46.	Is lethargic or apathetic; has little energy or drive.	++	+ .	-	
47.	Has a tendency to discontinue activities after exerting a minimum of effort.	++	+	•	
48.	Is generally a happy child.	++	+	-	
49.	Approaches new tasks timidly and withou assurance; shrinks from trying new thing		+	-	00 00
50.	What he does is often imitated by other children.	++	+	-	en j _e

Appendix B.4 CLASSROOM OBSERVATION RATING SCALE

I. COOPERATION WITH ADULTS

1. This child is exceedingly uncooperative and appears to resist in some manner almost any request made of him. Resistance may be in the form of ignoring requests, overt refusal to comply, complying verbally but not following through in action, etc.

2. This child is cooperative at times but is often resistant to suggestions made by adults. He needs considerable supervision and many reminders before

he complies with requests.

3. This child usually complies with requests after several reminders.

4. This child is usually eager to comply with suggestions from adults but sometimes has to be reminded.

5. This child is exceedingly cooperative and almost always complies the first time a request is made.

II. PEER RELATIONSHIPS

1. This child engages in solitary play most of the time with little parallel play and no cooperative play.

2. This child occupies himself equally between solitary

and parallel play.

3. This child engages in solitary or parallel play most of the time and occasionally engages in cooperative play.

This child occupies himself equally between cooperative play and with parallel or solitary

plav.

5. This child occupies himself predominantly with cooperative play and occasionally with parallel play or solitary play.

III. AGGRESSIVE REACTIONS

This child expresses anger verbally or physically, i.e., name calling, threats, protests, attacking, destroying objects.

- 1. Most of the time
- 2. Often
- 3. Occasionally
- 4. Seldom

ERIC

Not at all

IV. ABILITY TO POSTPONE GRATIFICATION

- 1. This child shows little ability to postpone gratification of any impulse and will get very upset if asked to wait for anything; demonstrates no ability to share or take turns.
- 2. This child shows considerable difficulty in postponing gratification of impulses and is only able to wait for very short periods of time before disregarding prohibitions.
- 3. This child shows <u>some</u> difficulty in postponing gratification but is able to wait for short periods of time for some things; although he grabs desired objects, he sometimes asks for things instead.
- 4. This child usually is able to wait for short periods of time when asked to do so by adult. Usually asks rather than grabs for things, usually able to share and take turns with little help from adults.
- 5. This child usually able to wait for things when asked to do so. Spontaneously takes turns and shares with other children.

V. INDEPENDENCE

- 1. This child seldom undertakes or completes a task unless he is told what to do and is given constant help and encouragement while he is doing it.
- This child requires encouragement and assistance from others to complete a task even when he is doing something which he could complete on his own.
- 3. This child usually completes what he has started and seeks some praise and encouragement on projects.
- 4. This child sometimes starts and completes projects without help or encouragement.
- 5. This child starts and completes "projects" such as puzzles, paintings, models, structures made of blocks, etc., with no help or need of encouragement from adults or peers he selects his own activities whenever possible.

VI. RESTRAINT OF MOTOR ACTIVITY

- 1. This child is in almost continual motion and his movements are characterized by occurring at a very high rate of speed. It is difficult to engage him in any form of subdued or quiet activity for more than one minute at a time.
- 2. This child is extremely active and his movements are characteristically quite rapid. He is able to engage in subdued or quiet activity for 4 or 5 minutes and with some external help can engage in such activity for about 10 or 12 minutes.
- 3. This child is quite active; however, he is able to engage in subdued or quiet activity for 10 to 12 minutes and with some external help can engage in such an activity for about 25 or 30 minutes.
- 4. This child, although active at other times, is able to engage in subdued or quiet activity for about 25 or 30 minutes and with some external help can engage in such activities for about 40 to 45 minutes.
- 5. This child is able to engage in subdued or quiet activity for about an hour and with some external help can engage in such activities for longer periods.

VII. TYPE OF MOTOR ACTIVITY

ERIC

Measure of the type of motor activity without consideration for intensity of activity. Large-muscle motor activity is noted in such movements as walking, running, bending, climbing, bold painting or coloring strokes, pushing or pulling objects, etc. Fine-muscle motor activity is noted in such movements as matching puzzle pieces, scissor cutting, picking up and fitting small objects together.

- 1. This child predominantly engages in large-muscle motor activity with little or no fine-muscle motor activity.
- 2. This child engages in both types of motor movement but more in large-muscle motor activity.
- 3. This child appears to spend equal time in both large and fine-muscle motor activity.
- 4. This child engages in both types of motor movement but more in fine-muscle motor activity.
- 5. This child predominantly engages in fine-muscle motor activity with little or no large-muscle motor activity.

VIII. ACTIVITY VS. PASSIVITY OF SPEECH

- 1. This child talks very seldom or not at all.
- 2. This child is typically quite passive in his verbal behavior, rarely talks to classmates, rarely volunteers information or asks questions in a group and will give only very brief answers to questions.
- 3. This child seldom asks questions or volunteers information or comments in a group and will seldom answer questions and participate in casual conversations with adults or classmates.
- 4. This child occasionally asks questions or volunteers information or comments in a group and occasionally engages in casual conversations with adults or classmates.
- 5. This child often asks questions, seems to have no reservations about expressing himself in a group situation, and is engaged in conversation with someone much of the time he is in class.

IX. VERBAL SKILLS

- 1. This child typically uses short sentences, short phrases, or single words to communicate with others. His vocabulary is limited to names for concrete objects, a few verbs, and perhaps some pronouns such as "I" and "me".
- 2. This child tends to use short sentences and phrases and is somewhat limited in his vocabulary.
- 3. This child seldom uses notably long sentences and phrases yet incorporates all parts of speech in his conversation.
- 4. This child sometimes uses long sentences and phrases when he speaks, incorporates all parts of speech in his conversation, but does not use many abstract concepts.
- 5. When he speaks, this child consistently uses long sentences and phrases and possesses an unusually large vocabulary which includes rather abstract concepts.



X. QUALITY OF SPEECH

- This child's pronunciation and grammar is so poor that he has difficulty making himself understood even after repetitions.
- 2. This child's pronunciation and grammar is poor enough to often require repetitions in order to be understood.
- 3. This child's pronunciation and grammar contains enough inaccuracies to sometimes require repetitions in order to be understood.
- 4. This child's pronunciation and grammar contains inaccuracies normally expected for this age but can be understood without his having to repeat.
- 5. This child's pronunciation and sentence structure is very much like an articulate adult his verbal communication is consistently clear and fluent.

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INVENTORY OF ORAL COMMUNICATION FOR CHILDREN
IN THE MORE EFFECTIVE SCHOOLS PROGRAM*

Appendix B.5

ASSESSMENT OF LANGUAGE SKILLS OF 3-6 YEAR-OLD CHILDREN

Teacher			Date			-	<u> </u>	
Pupil			P.S					s
Birthplace	Age	yrs	mos.	N (Ci	P rcl	R e On	0 le)	7
How long in N.Y.C.	Previou	s sch	ooling:Ty	ype_	_ ne	o.of	yrs,	<u> </u>
Language other than English	spoken	by pu	pil				-	
DIRECTIONS: Circle the numb to the degree to which the c Consult the Teacher's Guide scale and explanation of the	er on t hild ex for fur	he ra hibits	ting scal	le wh	ich	cor	respo	
General Facility	with t	he Eng	glish Lar	iguag	<u>e</u>			
The following two items are language is NOT English. Plo	intende ease gi	d <u>only</u> ve a g	for chigeneral,	ldre over	n wh all	nose rat:	nativ	ve .
1. Understanding of English				1	2	3	4	5
2. Use of English				1	2	3	4	5
I. Ex	pressive	e Abil	.ity				,	
A. Language Structure								
1. Uses non-verbal means a making himself understo	such as	gestu	res for	1	2	3	ų	5
2. Uses baby talk or made	up word	is.	,	1	2	3	4	5
3. Uses single words.				1	2	3	4	5
4. Employs short phrases,	several	word	s					
5. Uses complete sentences Comments:	.			1	2	3	4	5
				*				

^{*}Prepared in cooperation with the MES staff committee.

В.	Speech Production					
	1. Speaks audibly.	1	2	3	4	5
	2. Pronounces familiar words correctly.	1	2	3	4	5
	3. Enunciates correctly.	1	2	3	4	5
	Comments:					
c.	Naming					
	1. Uses names of very familiar objects.	1	2	3	4	5
	2. Uses names of very familiar places.	1	2	3	4	5
	3. Refers to familiar children in his class by name.	1	2	3	4	5
	4. Uses the name of familiar teachers.	1	2	3	4	5
	5. Uses personal pronouns when referring to himself .	1	2	3	4	5
	Comments:					
D.	Linguistic Skills					
	1. Verbalizes experiences either spontaneously or when asked to do so.	1	2	3	4	5
	2. Tries to exchange ideas or information with other children.	1	2	3	4.	5
	3. Holds sustained conversation with teacher.	1	2	3	4	5
	4. Asks questions such as: "What is it?" in response to new things.	1	2	3	4	5
	5. Asks: "Why?"	1	2	3	4	5
	6. Helps other children in following directions or solving a problem by explaining words for them.	1	2	3	4	5
	7. Tries to justify his own reasoning or persuade other children to see his point of view.	1	2	3	4	5
	8. Questions other children as to how they think or feel or what they do.	1	2	3	4	5
	9. Tells stories, real or imaginary, to other children or teachers.	1	2	3	ij	5
1.	O. Asks to do things by himself using ges- tures or saying: "Let me."	1	2	3	4	5
1	1. Uses verbal names to draw attention to himself.	1	2	3	4	5
	Comments:					

Comments:

II. Receptive Understanding

A.	A. Auditory Discrimination						
	1.	Without looking, correctly identifies sound effects.	1	2	3	4	5
	2.	Repeats a single rhythmic pattern.	1	2	3	4	5
	3.	Repeats foreign or nonsense words.	1	2	3	4	5
	4.	Supplies words that rhyme.					
	Con	ments:					
В.	B. <u>Listening Comprehension</u>						
	1.	Follows directions.	1	2	3	<u>r</u> t	5
	2.	Retells a story or experience in the proper sequence.	1	2	3	4	5
	3.	Anticipates the ending of a story or what comes next.	1	2	3	4	5
	4.	Asks pertinent questions.	1	2	3	4	5
	5.	Answers pertinent questions.	1	2	3	4	5
	6.	His emotional response indicates that he has understood what he has heard.	1	2	3	4	5
	7.	Takes part in dramatization.	,1	2	3	4	5



Comments: